Claims:

1. A targeted oligonucleotide construct comprising:

a targeting moiety which localizes to a site in an organism; an oligonucleotide complementary to a nucleic acid of interest; and a detectable label.

- 2. A targeted oligonucleotide construct as in claim 1, wherein the targeting moiety is selected from a lipid, an antibody, a lectin, a ligand, a sugar, a steroid, a hormone, a nutrient, and a protein.
- 3. A targeted oligonucleotide construct as in claim 1, wherein the detectable label is selected from a chemiluminescent label, a radioisotope, a fluorescent label, a paramagnetic contrast agent, and a metal chelate.
- 4. A targeted oligonucleotide construct as in claim 1, wherein the oligonucleotide is selected from an antisense oligonucleotide and an antisense oligonucleotide analog.
- 5. A targeted oligonucleotide construct as in claim 1, wherein the detectable label and the targeting moiety are coupled to the oligonucleotide.
- 6. A targeted oligonucleotide construct as in claim 1, wherein the oligonucleotide and the detectable label are coupled to the targeting moiety.
- 7. A targeted oligonucleotide construct as in claim 1, wherein the targeting moiety and the oligonucleotide are coupled to the detectable label.

8. A targeted oligonucleotide conjugate comprising:

a targeting moiety which localizes to a site in an organism;

an oligonucleotide complementary to a nucleic acid of interest, and a therapeutic agent.

- 9. A targeted oligonucleotide construct as in claim 8, wherein the targeting moiety is selected from a lipid, an antibody, a lectin, a ligand, a sugar, a steroid, a hormone, a nutrient, and a protein.
- 10. A targeted oligonucleotide construct as in claim 8, wherein the therapeutic agent is selected from an enzyme, an enzyme inhibitor, a receptor ligand, a radioisotope, an antibiotic, a steroid, a hormone, a polypeptide, a glycopeptide, a phospholipid, and a drug.
- 11. A targeted oligonucleotide construct as in claim 8, wherein the oligonucleotide is selected from an antisense oligonucleotide and an antisense oligonucleotide analog.
- 12. A targeted oligonucleotide construct as in claim 8, wherein the therapeutic agent and the targeting moiety are coupled to the oligonucleotide.
- 13. A targeted oligonucleotide construct as in claim 8, wherein the oligonucleotide and the therapeutic agent are coupled to the targeting moiety.
- 14. A targeted oligonucleotide construct as in claim 8, wherein the targeting moiety and the oligonucleotide are coupled to the therapeutic agent.

15. A method for preparing a targeted oligonucleotide construct, comprising:

forming a conjugate by connecting a targeting moiety which localizes to a site in an organism to an oligonucleotide complementary to a nucleic acid of interest; and

connecting a detectable label to the conjugate.

16. A method for preparing a targeted oligonucleotide construct, comprising:

forming a conjugate by connecting a targeting moiety which localizes to a site in an organism to a detectable label; and

connecting to the conjugate an oligonucleotide complementary to a nucleic acid of interest.

1. A method for preparing a targeted oligonucleotide construct, comprising:

forming a conjugate by connecting a detectable label to an oligonucleotide complementary to a nucleic acid of interest; and

connecting to the conjugate a targeting moiety which localizes to a site in an organism.

18. A method for preparing a targeted oligonucleotide construct, comprising:

forming a conjugate by connecting a targeting moiety which localizes to a site in an organism to an oligonucleotide complementary to a nucleic acid of interest; and

connecting a therapeutic agent to the conjugate.

16. A method for preparing a targeted oligonucleotide construct, comprising:

forming a conjugate by connecting a targeting moiety which localizes to a site in an organism to a therapeutic agent; and

connecting to the conjugate an oligonucleotide complementary to a nucleic acid of interest.

26. A method for preparing a targeted oligonucleotide construct, comprising:

forming a conjugate by connecting a therapeutic agent to an oligonucleotide complementary to a nucleic acid of interest; and

connecting to the conjugate a targeting moiety which localizes to a site in an organism.

21. A method for introducing a targeted oliognucleotide construct of claim 1 into a cell, comprising contacting a cell with a targeted oligonucleotide of claim 1, such that the targeted oligonucleotide is introduced into the cell.

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- 22. The method of claim 21, wherein the cell is in vitro.
- 23. A method for treating a physiological condition in a patient, comprising administering an amount of a targeted construct of claim 8 sufficient to treat the physiological condition.
- 24. A method for imaging a physiological condition in a subject, comprising: administering to the subject a targeted construct of claim 1; and detecting the label in the patient.

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